

AMENDMENT UNDER 37 C.F.R. § 1.111
Appln. No. 09/961,283

a feedback control means for performing a correcting process for the vibration signal based on the motor rotational number.

A¹ 2. (Amended) A vibration reduction control apparatus for an electric motor comprising:

a detecting means for detecting a motor rotational number of the electric motor and outputting a motor rotational number signal based on the motor rotational number;

a control means for outputting a torque control signal based on the motor rotational number signal and controlling the electric motor;

a filter means for extracting a vibration signal of a predetermined frequency band including a frequency band of a disturbance vibration based on the motor rotational number signal detected by the detecting means;

a correcting means for performing a predetermined correcting process which reduces a vibration of the vibration signal for the vibration signal of the predetermined frequency band extracted by the filter means and obtaining a corrected amount; wherein

the control means performs an addition or a subtraction of the corrected amount obtained from the correcting means based on a feedback of the motor rotational number for the torque control signal of the electric motor.

A² 9. (Amended) A vibration reduction control apparatus for an electric motor comprising:

a detecting means for detecting a motor rotational number of the electric motor;
a control means for outputting a torque control signal based on the motor rotational number for the electric motor; and

A2 a controller for suppressing effect by characteristic fluctuation of a control system based on the motor rotational number, and obtaining a corrected amount compensating sensibility characteristic when the characteristic fluctuation happens; wherein

the controller performs an addition or a subtraction of the corrected amount obtained from the controller based on a feedback of the motor rotational number for the torque control signal of the electric motor.

REMARKS

Claims 1-12 are all the claims pending in the application.

The Examiner indicates that claims 7, 8, 11 and 12 are allowed. However, the Examiner rejects claims 1-6, 9 and 10 under 35 U.S.C. § 103(a) as being unpatentable over Goto.

Applicant respectfully traverses the Examiner's prior art rejections as follows.

The embodiments of Applicant's invention as claimed in independent claims 1, 2 and 9 define unique combination of features comprising, *inter alia*, control means for performing a correcting process for the vibration signal based on the motor rotational number. (Claims 1, 2 and 9 have been amended explicitly to recite this feature. Since this feature were believed to have been implicit in the original claims 1, 2 and 9, these amendment do not narrow the scope of the original claims 1, 2 and 9, but a merely for clarification purposes. No estoppel is created.)